FIG.1

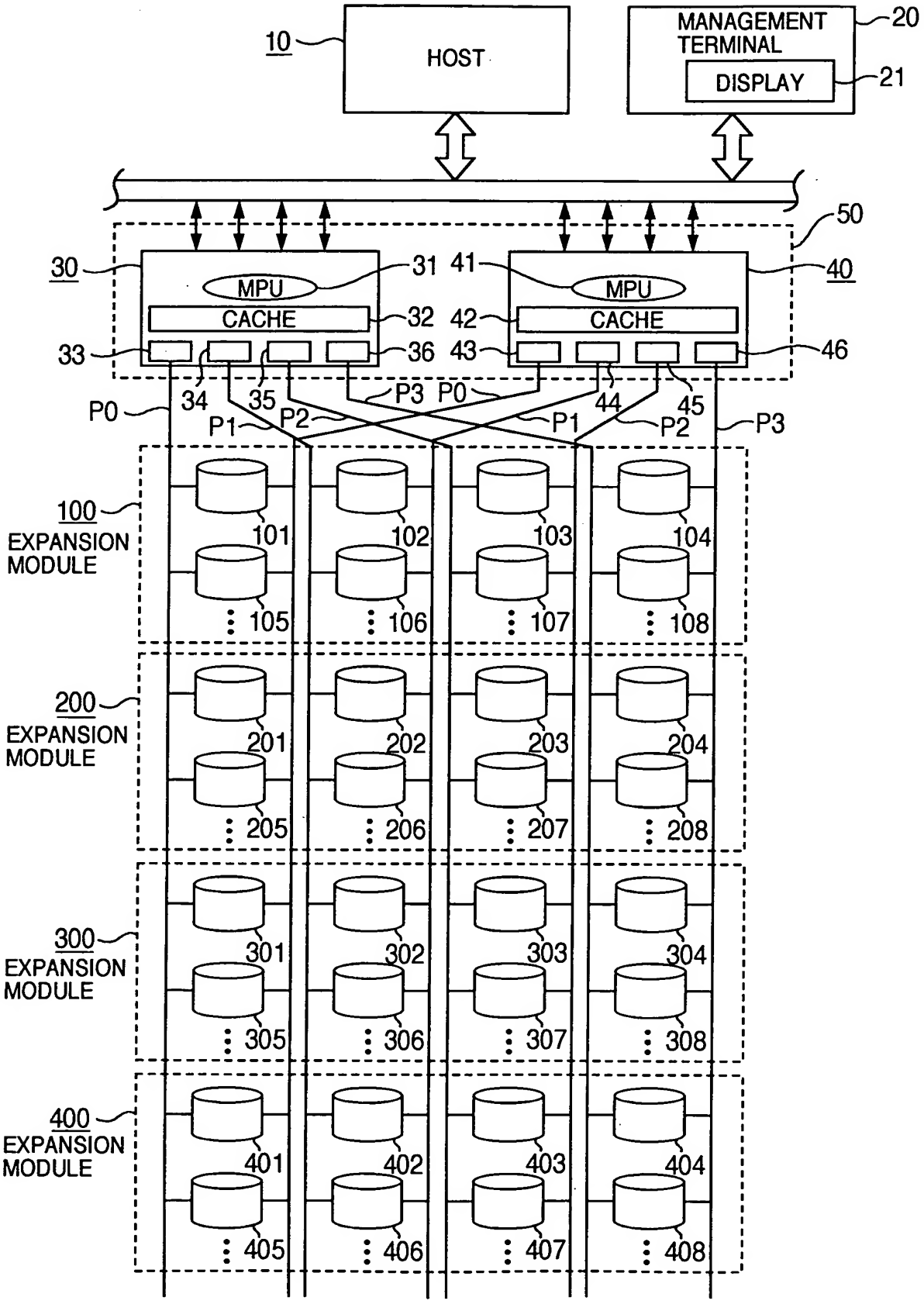
10
HOST
MANAGEMENT TERMINAL
20
DISPLAY
21
50
30
31
MPU
CACHE
32
33
36
41
42
43
46
40
34
35
44
45
P0
P1
P2
P3
100
EXPANSION MODULE
200
EXPANSION MODULE
300
EXPANSION MODULE
400
EXPANSION MODULE
101
102
103
104
105
106
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FIG.2

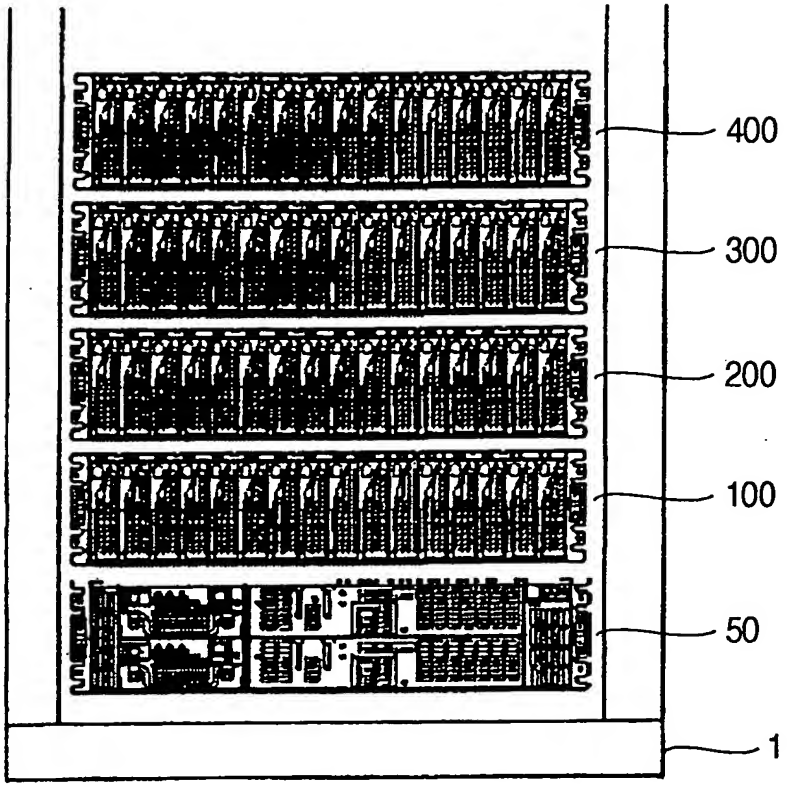
400
300
200
100
50
1

FIG.3

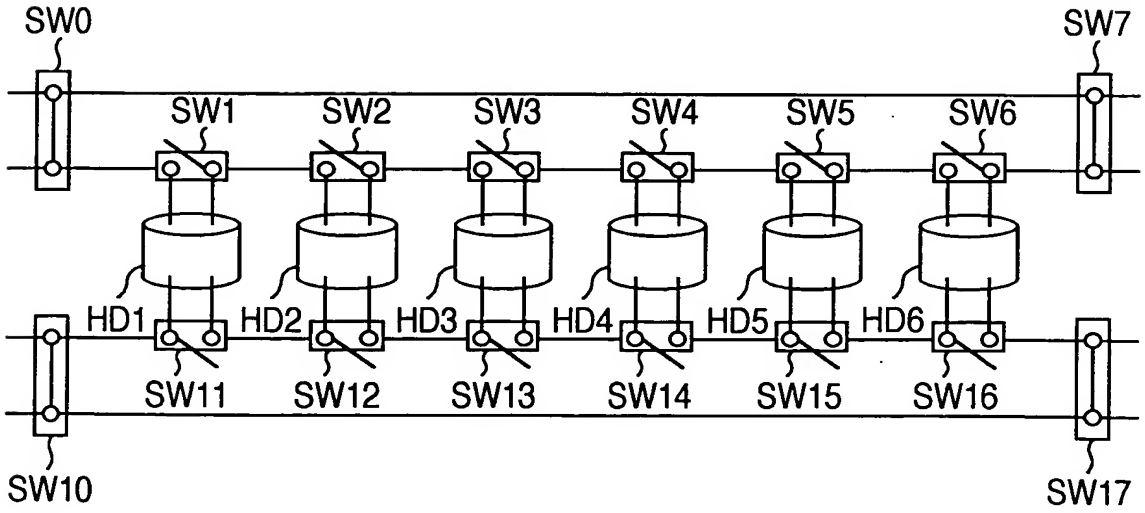
SW0
SW7
SW1
SW2
SW3
SW4
SW5
SW6
HD1
HD2
HD3
HD4
HD5
HD6
SW11
SW12
SW13
SW14
SW15
SW16
SW10
SW17

FIG.4

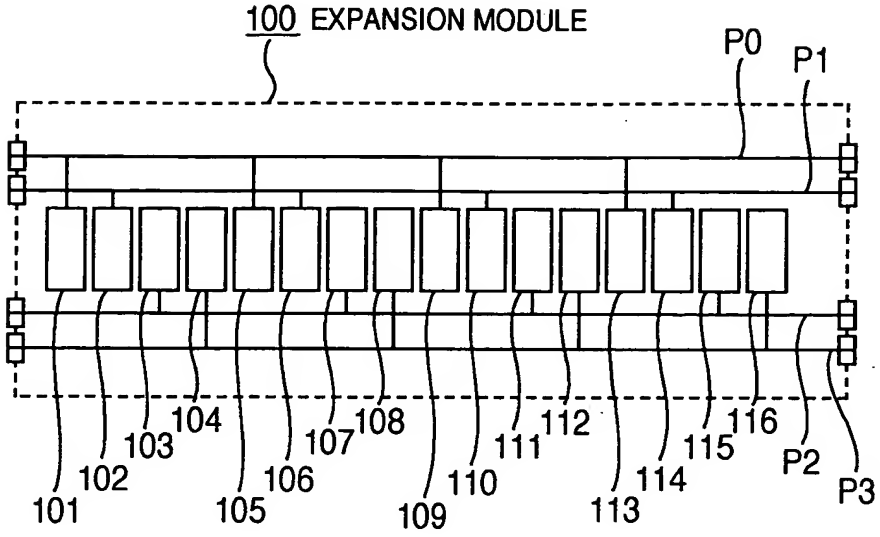
100 EXPANSION MODULE
P0
P1
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
P2
P3

FIG.5

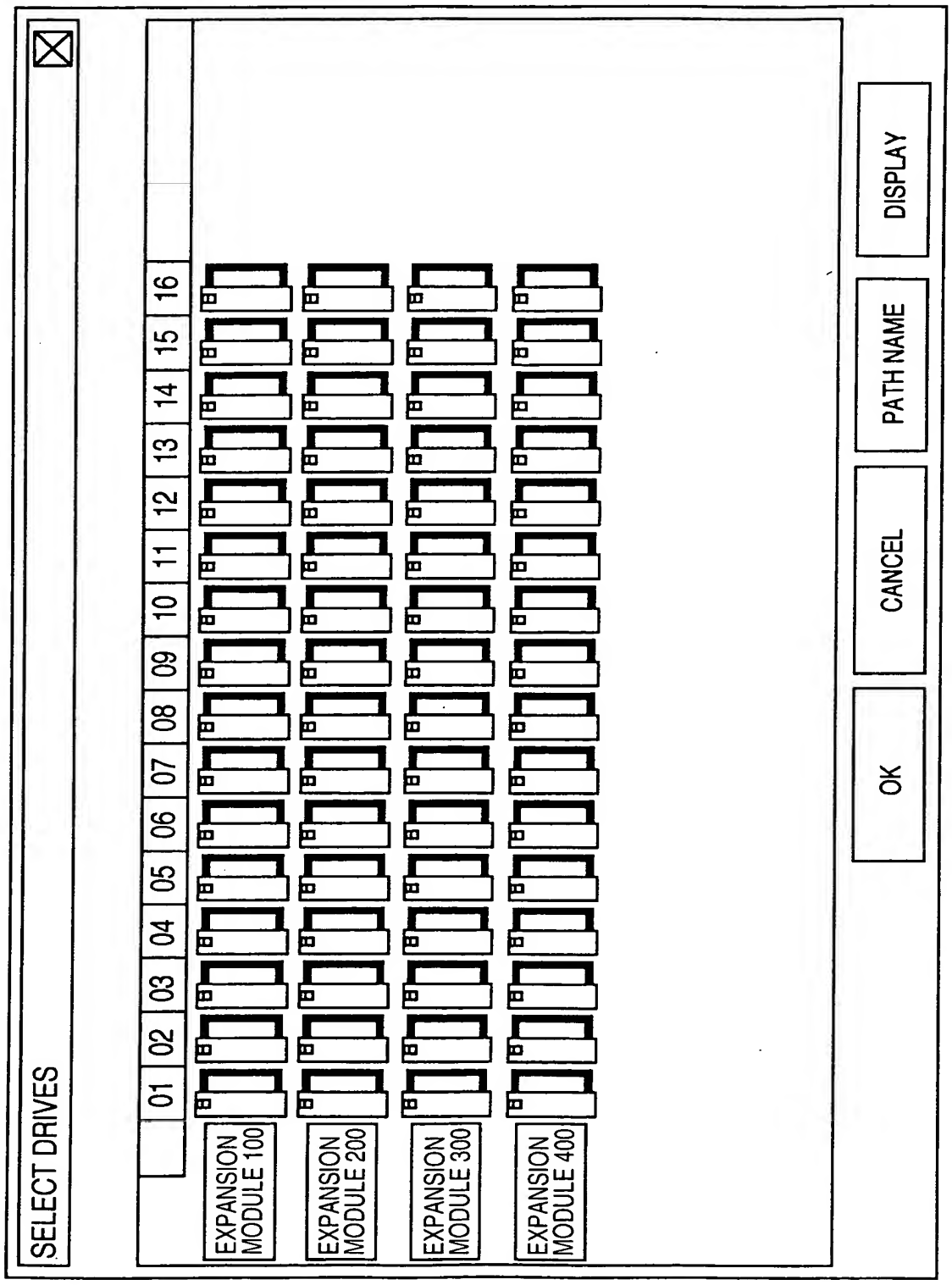
SELECT DRIVES
01
02
03
04
05
06
07
08
09
10
11
12
13
14
15
16
EXPANSION MODULE 100
EXPANSION MODULE 200
EXPANSION MODULE 300
EXPANSION MODULE 400
OK
CANCEL
PATH NAME
DISPLAY

FIG.6

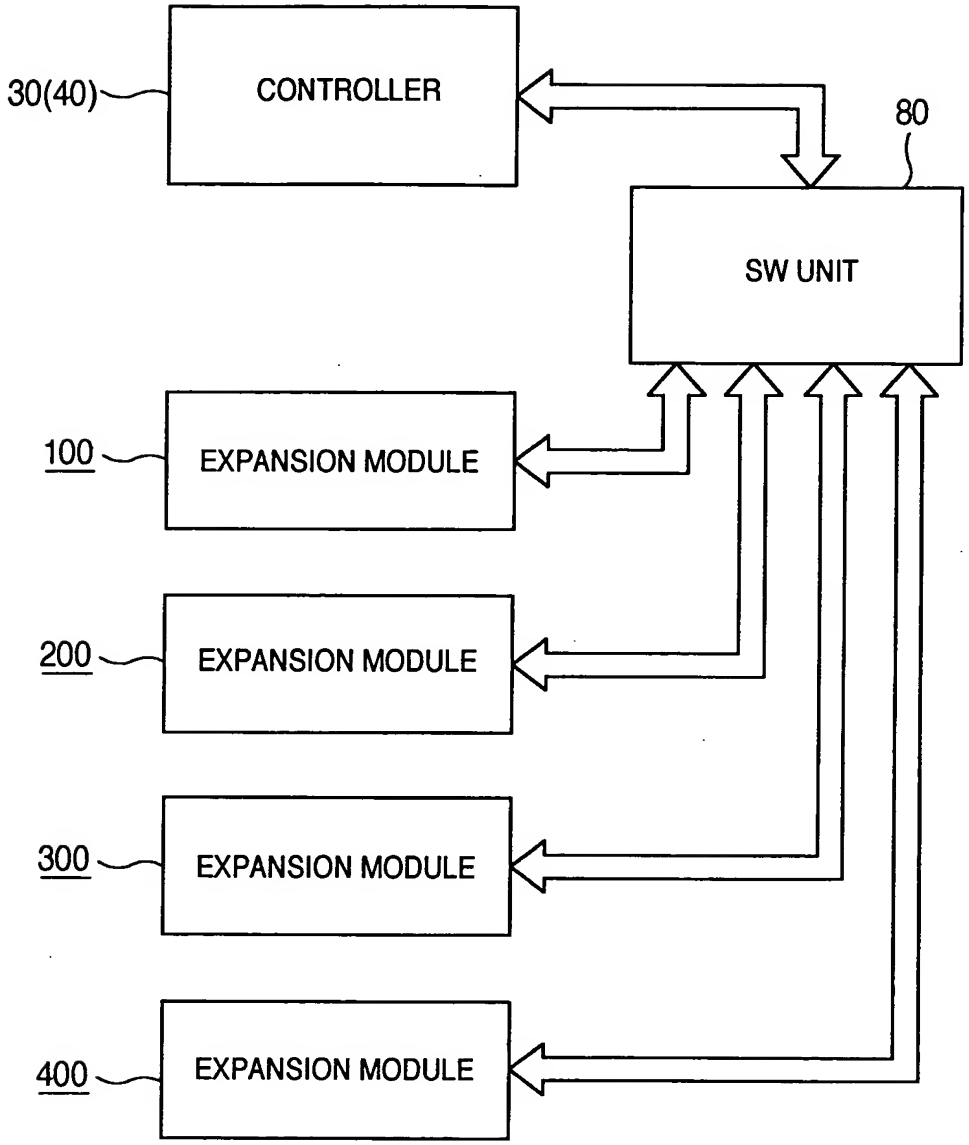
30(40)
CONTROLLER
80
SW UNIT
100
EXPANSION MODULE
200
EXPANSION MODULE
300
EXPANSION MODULE
400
EXPANSION MODULE

FIG.7

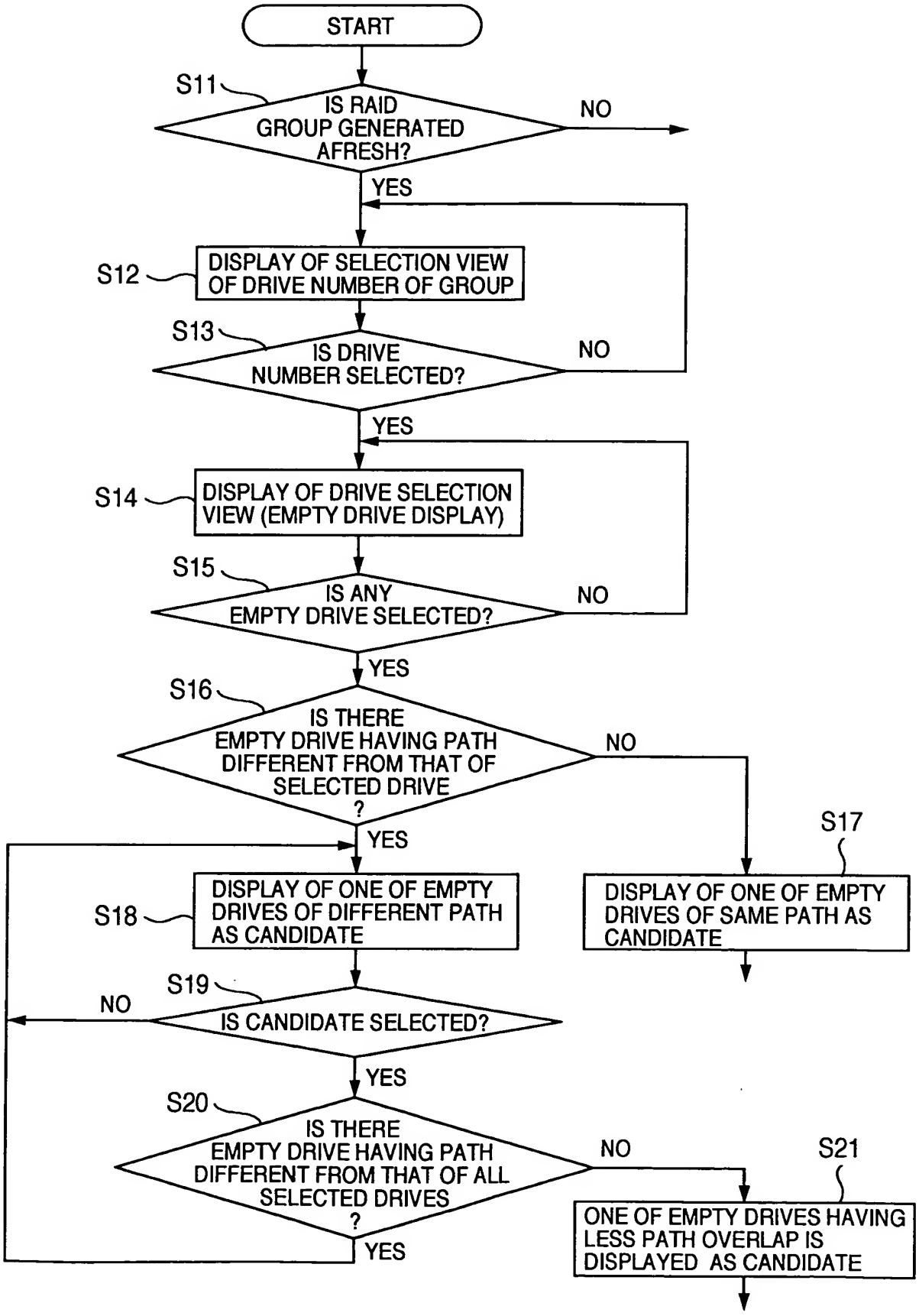
START
S11
IS RAID GROUP GENERATED AFRESH?
NO
YES
S12
DISPLAY OF SELECTION VIEW OF DRIVE NUMBER OF GROUP
S13
IS DRIVE NUMBER SELECTED?
NO
YES
S14
DISPLAY OF DRIVE SELECTION VIEW (EMPTY DRIVE DISPLAY)
S15
IS ANY EMPTY DRIVE SELECTED?
NO
YES
S16
IS THERE EMPTY DRIVE HAVING PATH DIFFERENT FROM THAT OF SELECTED DRIVE ?
NO
YES
S17
DISPLAY OF ONE OF EMPTY DRIVES OF SAME PATH AS CANDIDATE
S18
DISPLAY OF ONE OF EMPTY DRIVES OF DIFFERENT PATH AS CANDIDATE
S19
IS CANDIDATE SELECTED?
NO
YES
S20
IS THERE EMPTY DRIVE HAVING PATH DIFFERENT FROM THAT OF ALL SELECTED DRIVES ?
NO
YES
S21
ONE OF EMPTY DRIVES HAVING LESS PATH OVERLAP IS DISPLAYED AS CANDIDATE

FIG.8

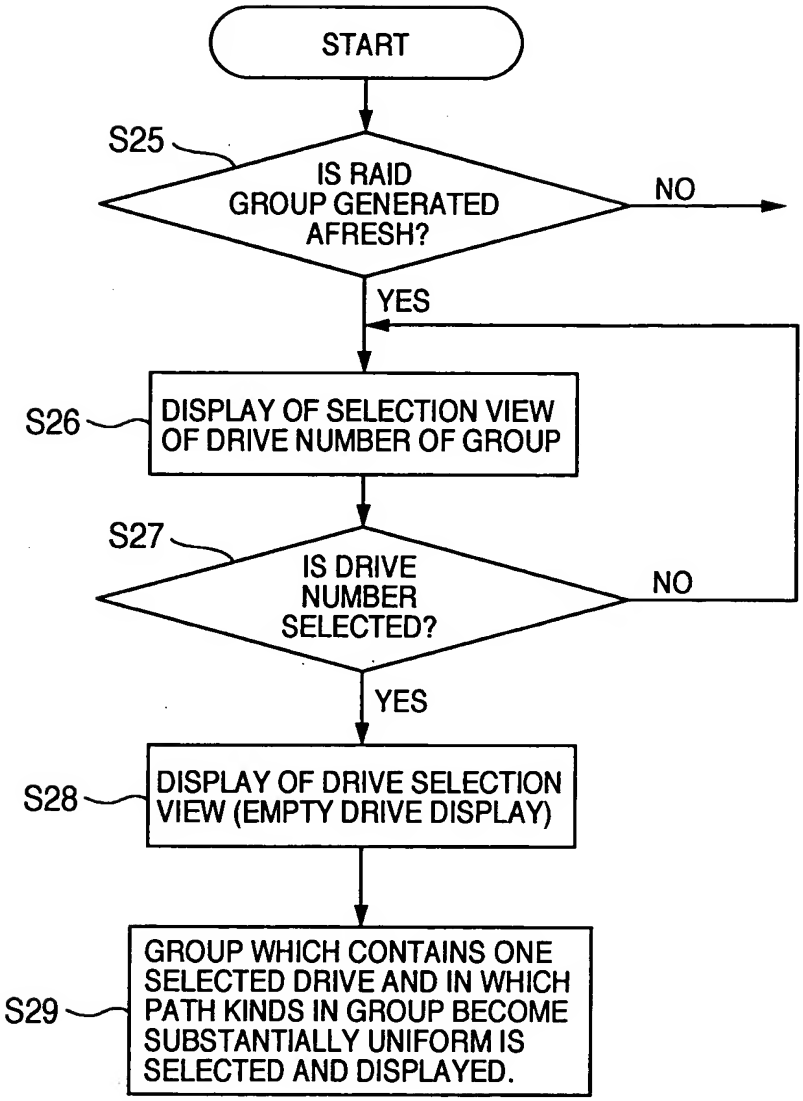
START
S25
IS RAID GROUP GENERATED AFRESH?
NO
YES
S26
DISPLAY OF SELECTION VIEW OF DRIVE NUMBER OF GROUP
S27
IS DRIVE NUMBER SELECTED?
NO
YES
S28
DISPLAY OF DRIVE SELECTION VIEW (EMPTY DRIVE DISPLAY)
S29
GROUP WHICH CONTAINS ONE SELECTED DRIVE AND IN WHICH PATH KINDS IN GROUP BECOME SUBSTANTIALLY UNIFORM IS SELECTED AND DISPLAYED.

FIG.9

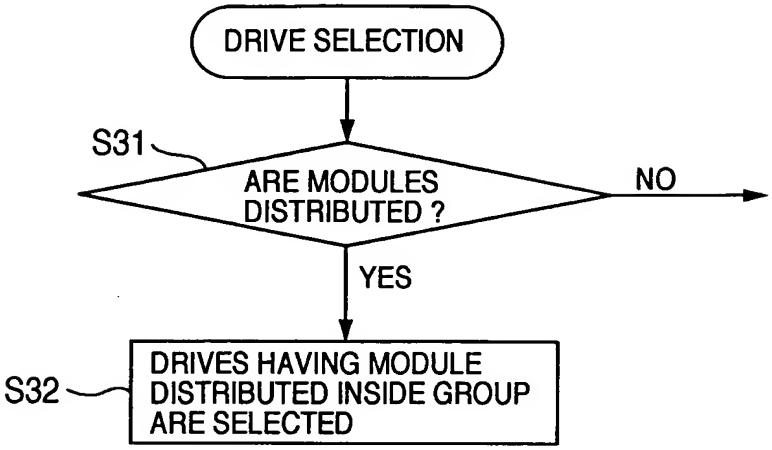
DRIVE SELECTION
S31
ARE MODULES DISTRIBUTED ?
NO
YES
S32
DRIVES HAVING MODULE DISTRIBUTED INSIDE GROUP ARE SELECTED

FIG.10

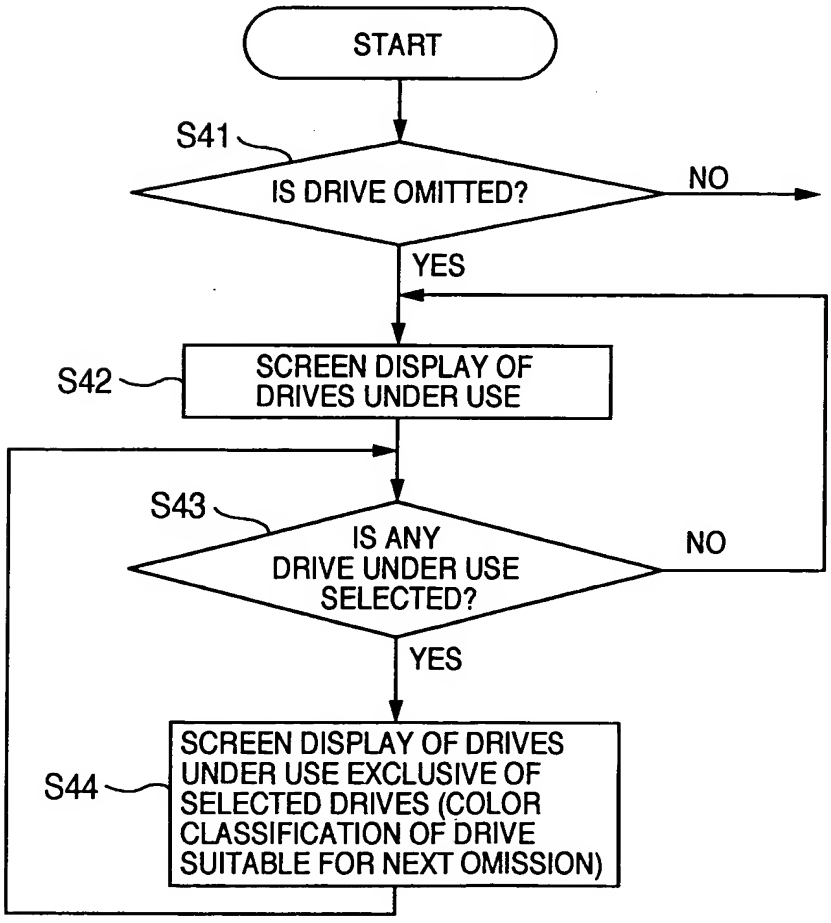
START
S41
IS DRIVE OMITTED?
NO
YES
S42
SCREEN DISPLAY OF DRIVES UNDER USE
S43
IS ANY DRIVE UNDER USE SELECTED?
NO
YES
S44
SCREEN DISPLAY OF DRIVES UNDER USE EXCLUSIVE OF SELECTED DRIVES (COLOR CLASSIFICATION OF DRIVE SUITABLE FOR NEXT OMISSION)

FIG.11

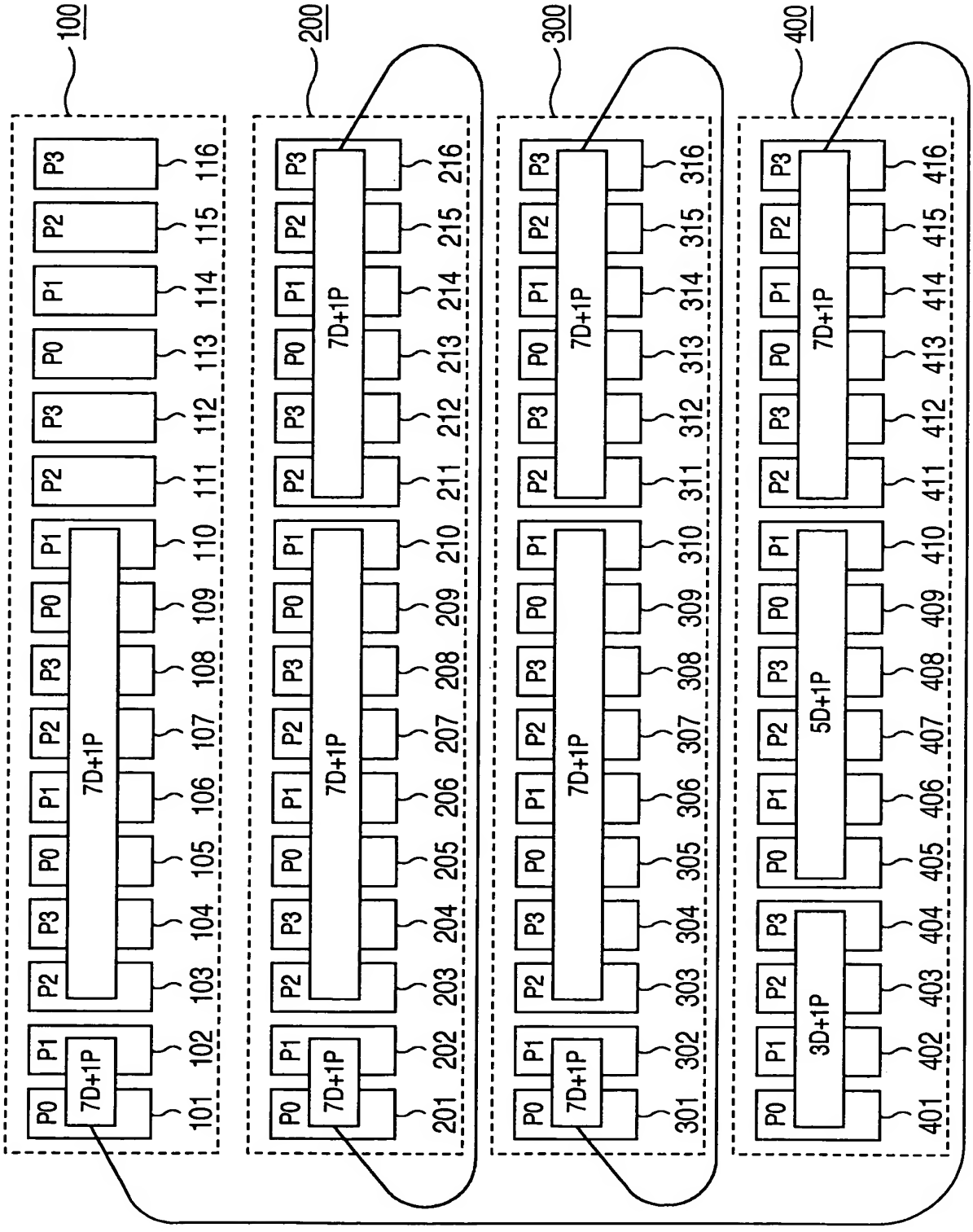
100
200
300
400
7D+1P
5D+1P
3D+1P
P0
P1
P2
P3
101
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FIG.12

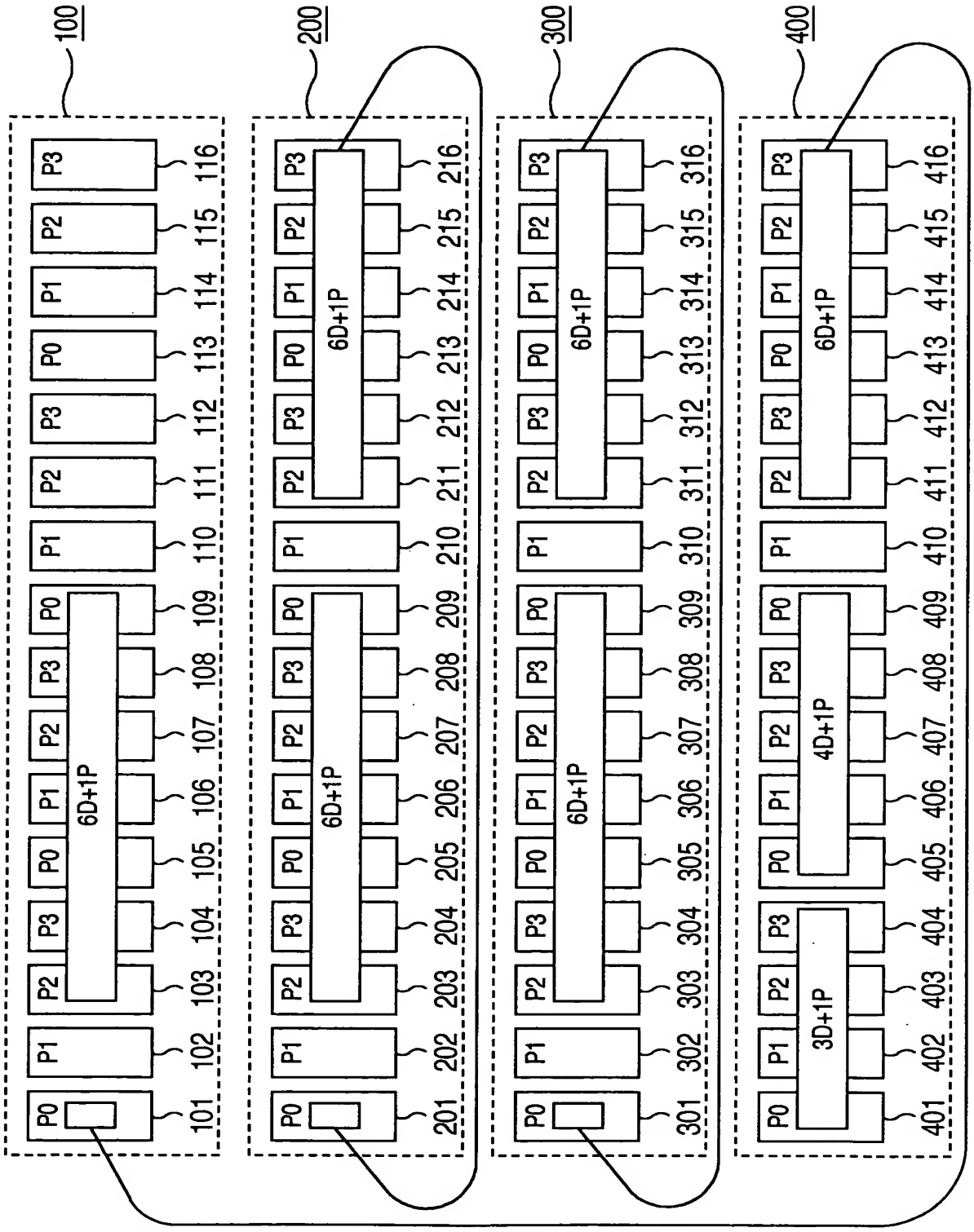
100
200
300
400
6D+1P
4D+1P
3D+1P
P0
P1
P2
P3
101
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FIG.13

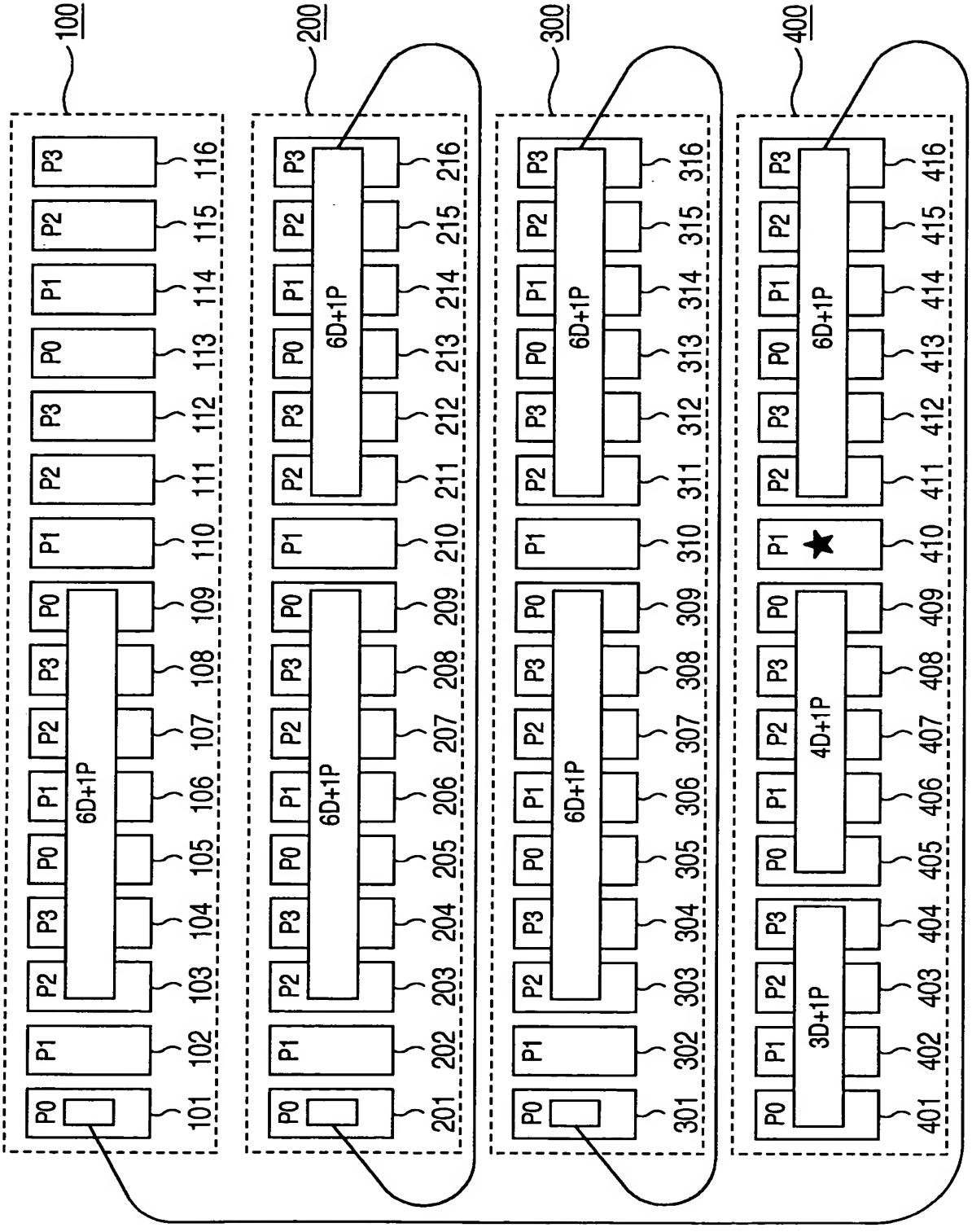
100
200
300
400
6D+1P
4D+1P
3D+1P
P0
P1
P2
P3
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FIG.14

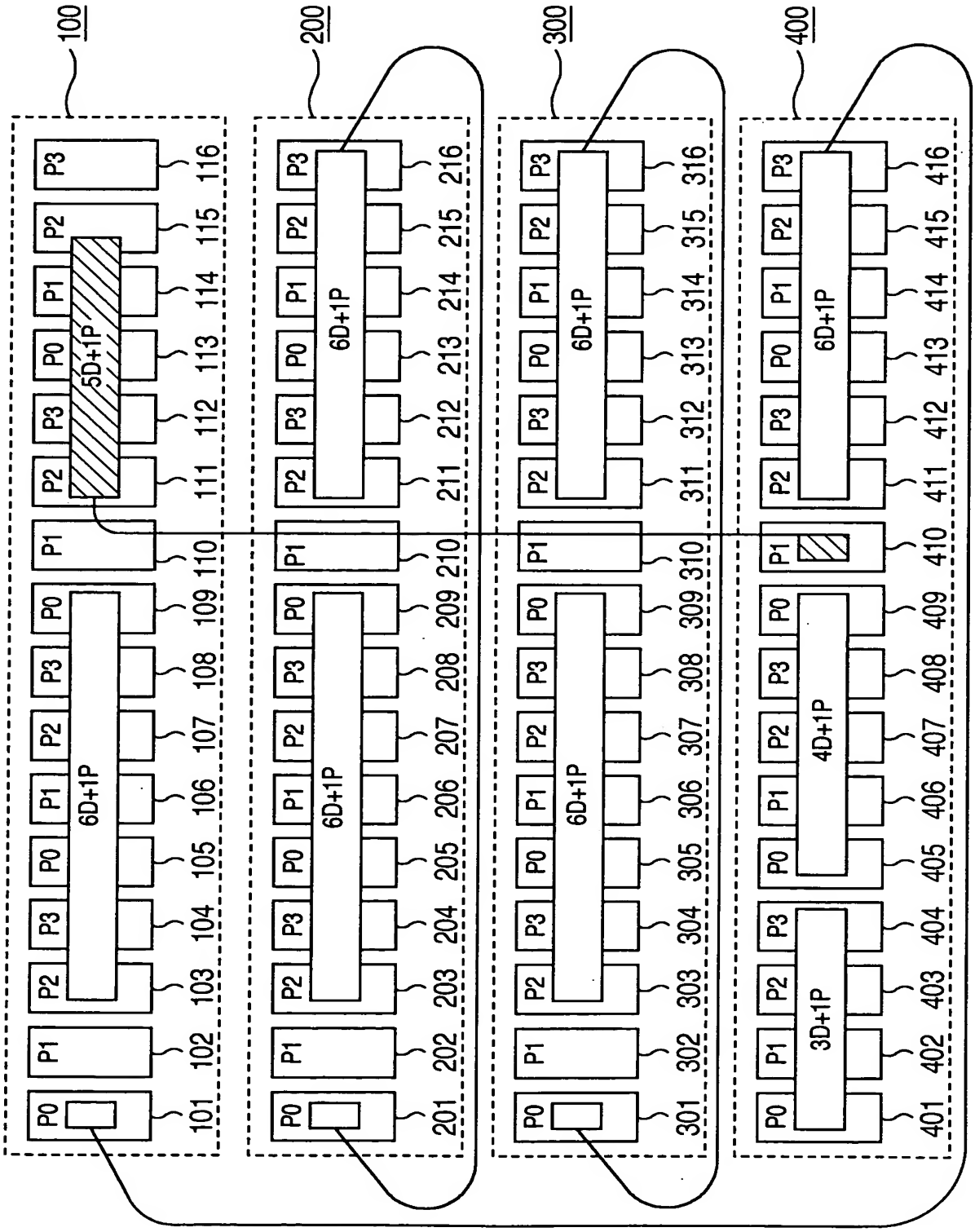
100
200
300
400
5D+1P
6D+1P
6D+1P
6D+1P
6D+1P
4D+1P
3D+1P
P0
P1
P2
P3
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FIG.15

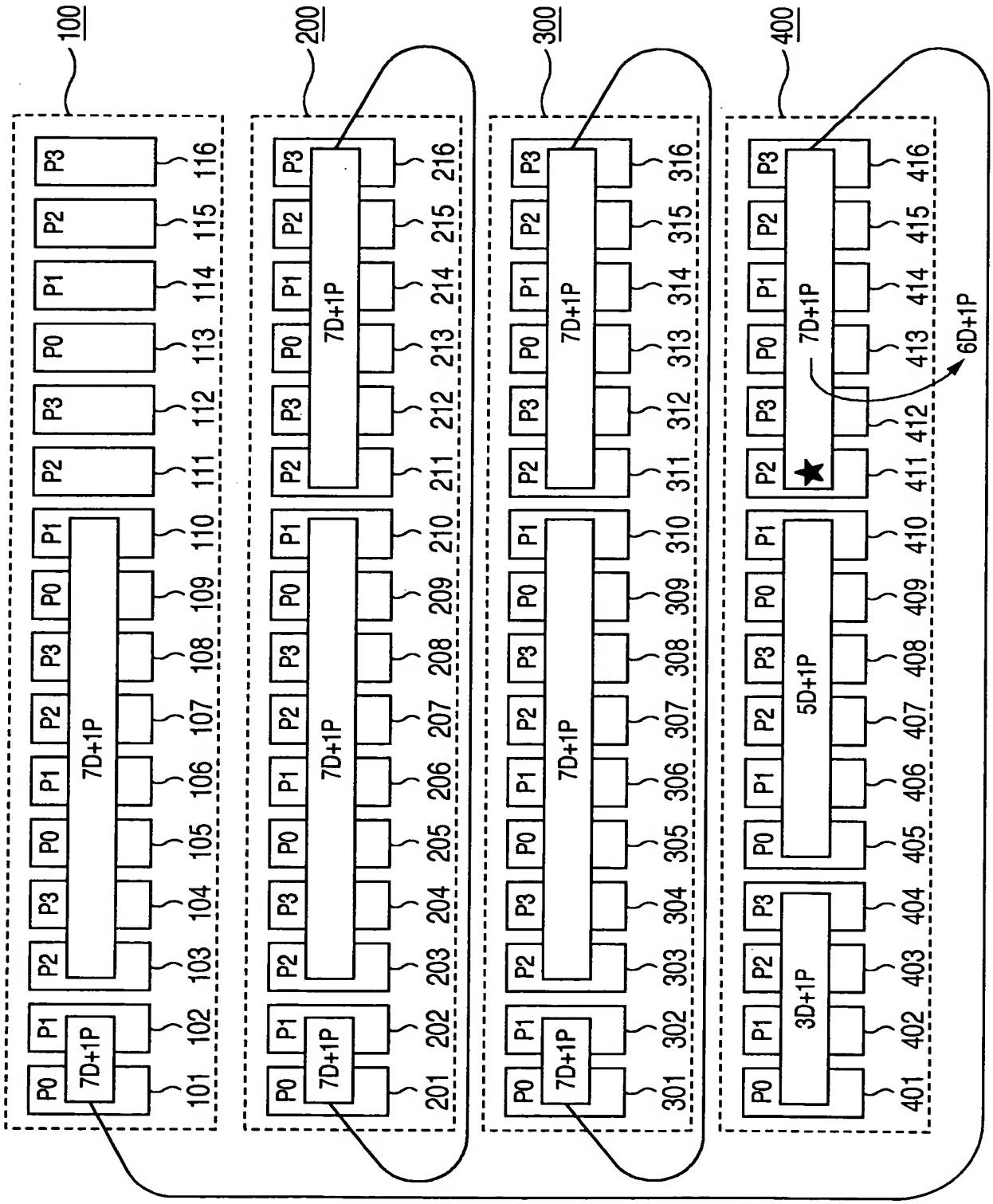
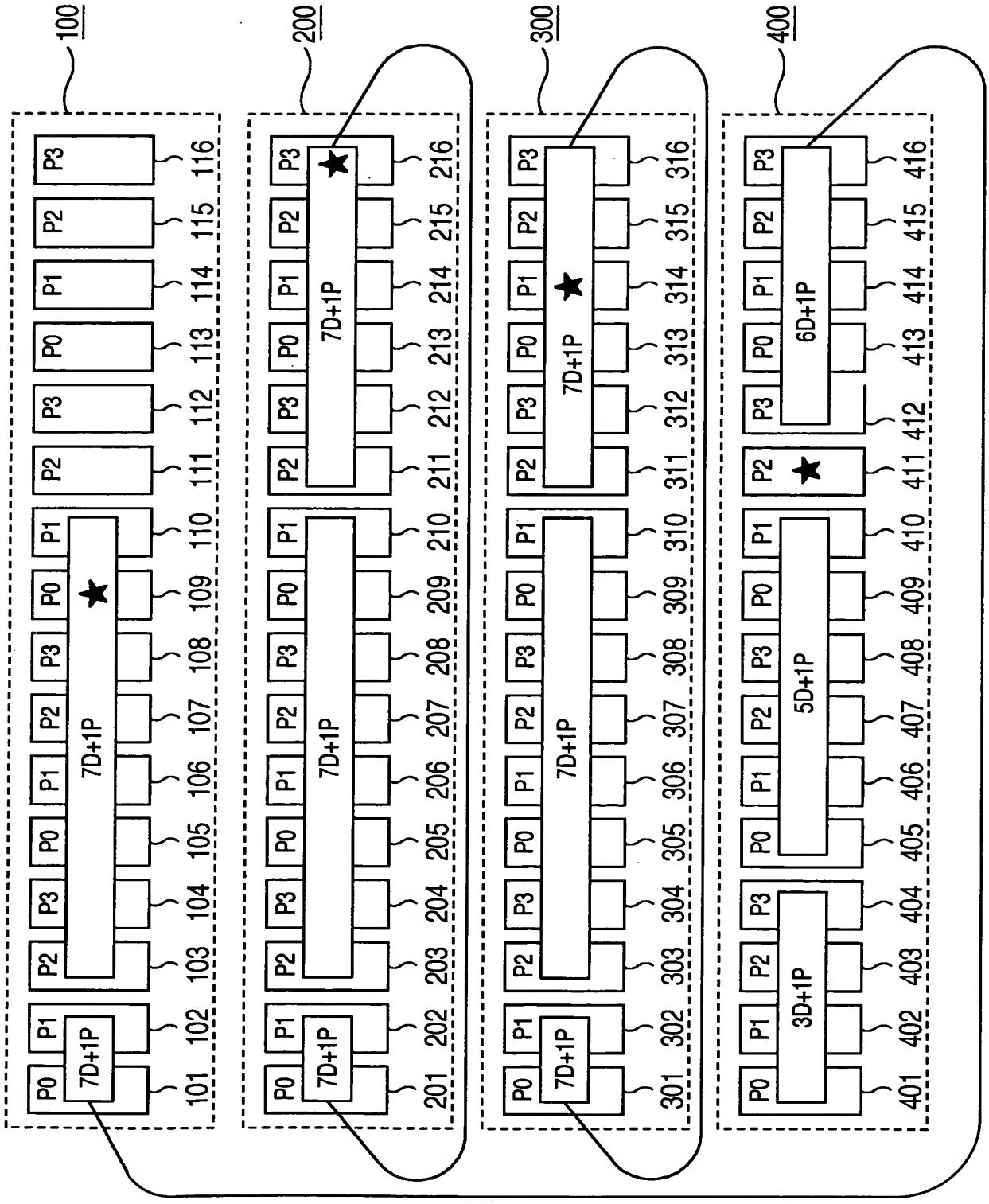


FIG.16


100
200
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400
7D+1P
6D+1P
5D+1P
3D+1P
P0
P1
P2
P3
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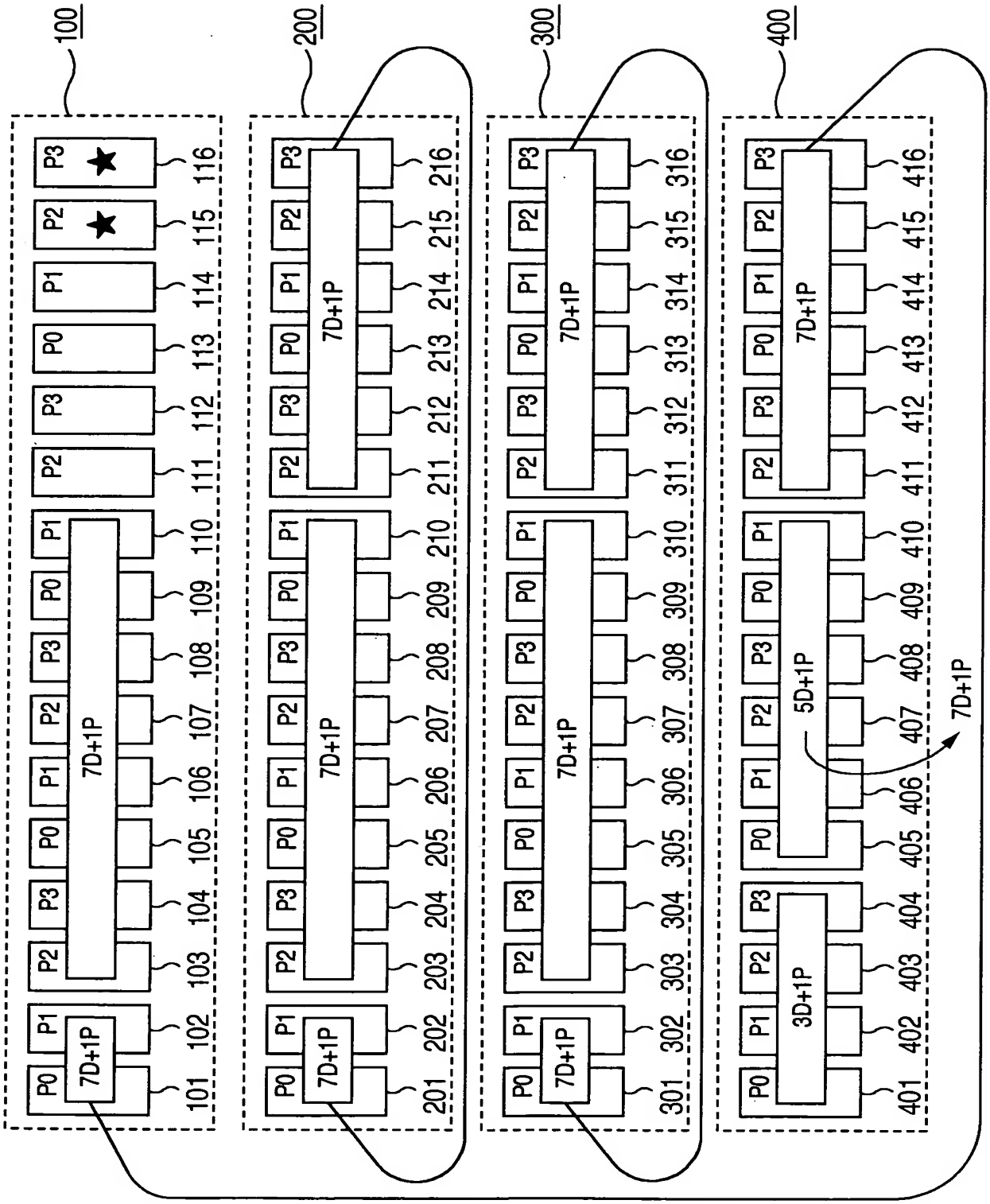
FIG.17


100
200
300
400
P0
P1
P2
P3
7D+1P
5D+1P
3D+1P
101
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104
105
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FIG.18

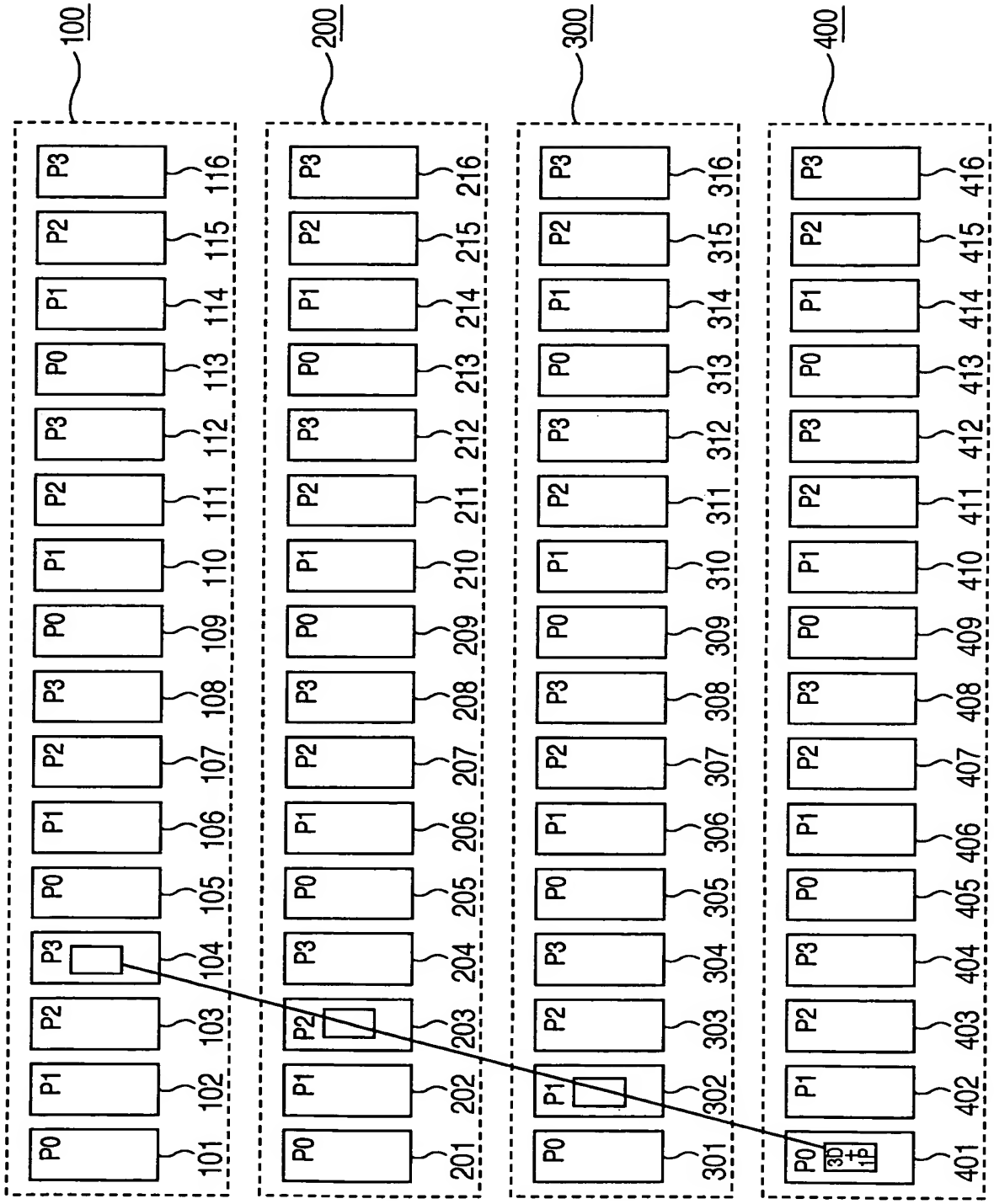


FIG.19

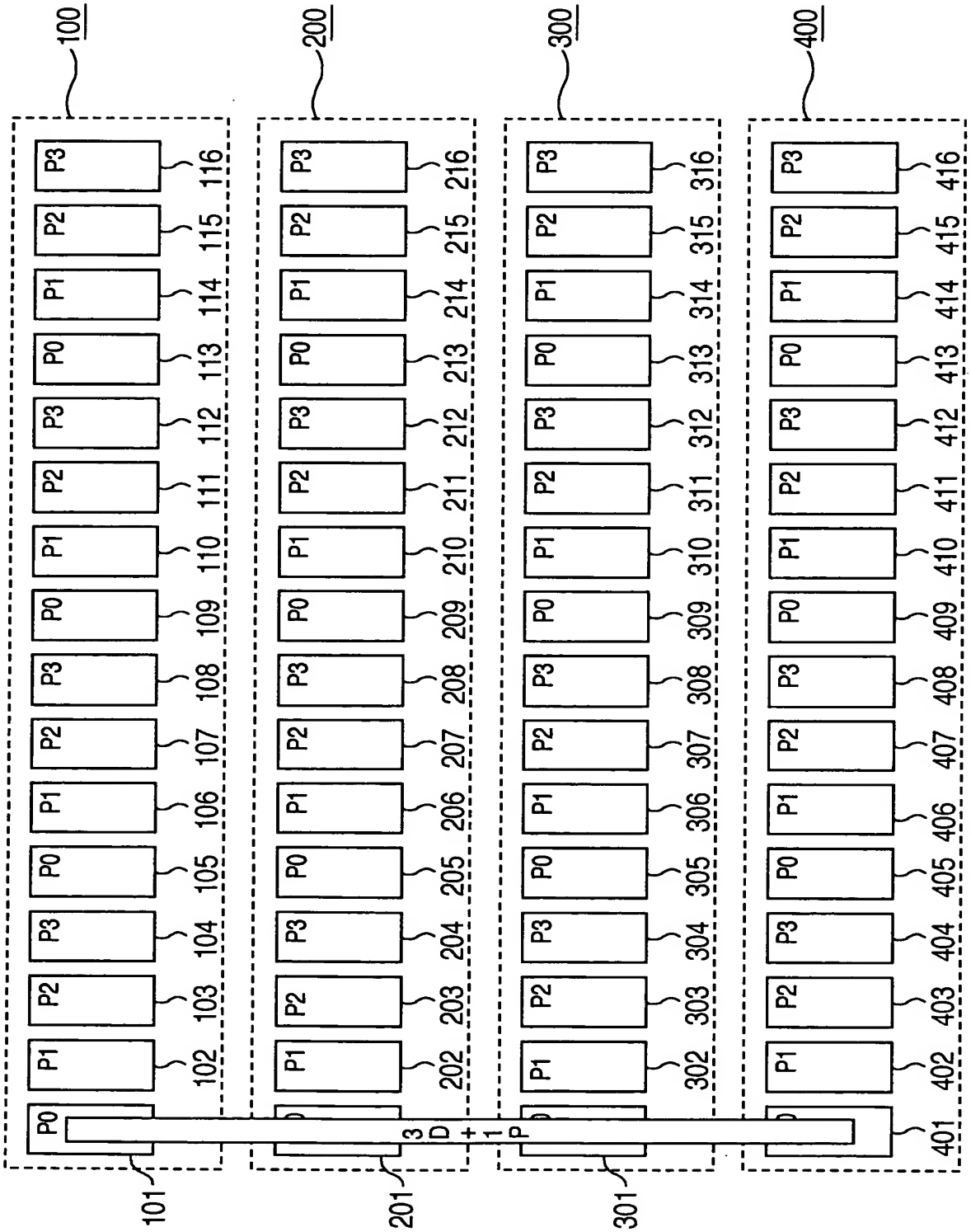


FIG.20

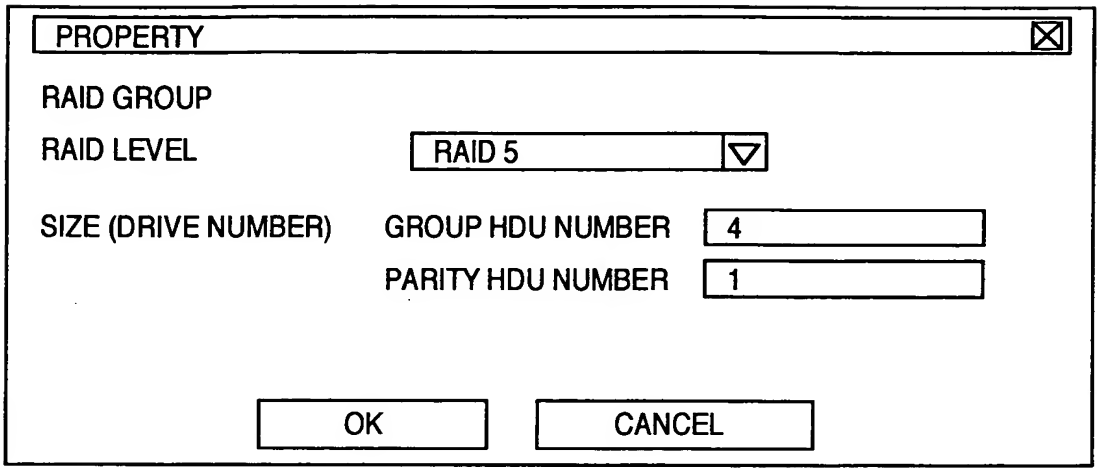
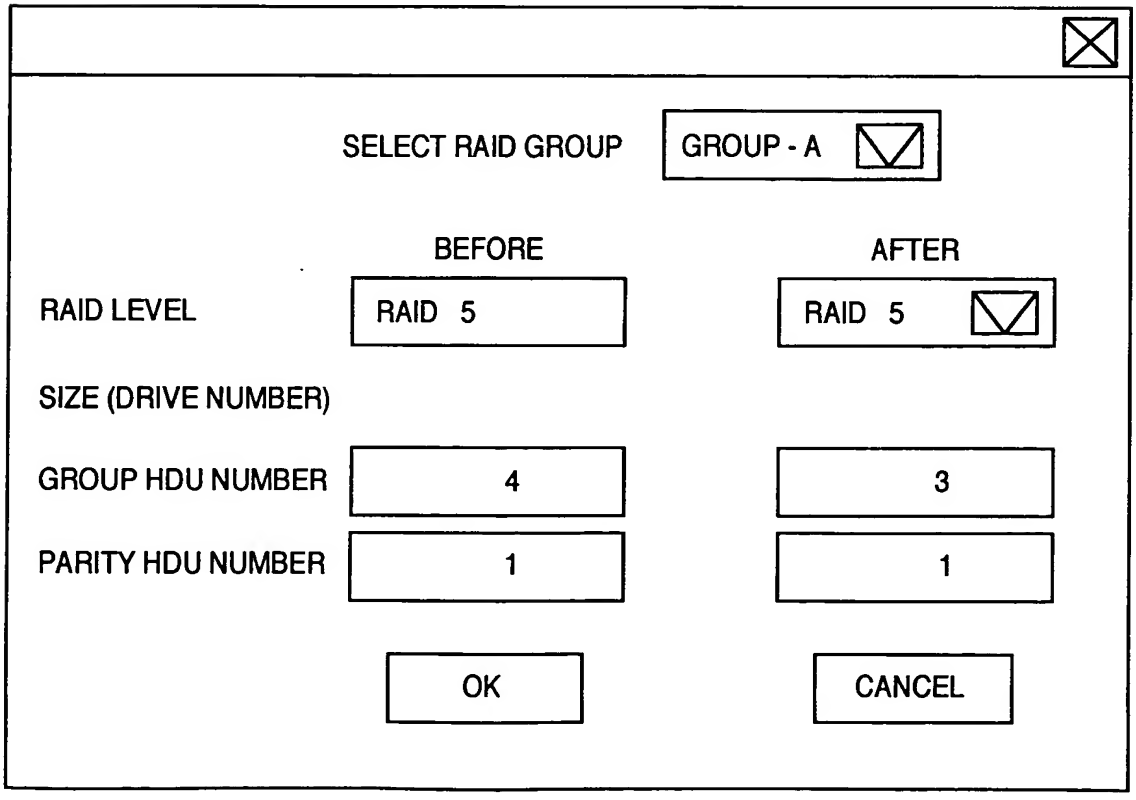

PROPERTY
RAID GROUP
RAID LEVEL
RAID 5
SIZE (DRIVE NUMBER)
GROUP HDU NUMBER
4
PARITY HDU NUMBER
1
OK
CANCEL

FIG.21


SELECT RAID GROUP
GROUP - A
BEFORE
AFTER
RAID LEVEL
RAID 5
RAID 5
SIZE (DRIVE NUMBER)
GROUP HDU NUMBER
4
3
PARITY HDU NUMBER
1
1
OK
CANCEL